

DETAILED ACTION

Response to Communication(s)

1. This Office Action is in response to the Communication(s) filed on November 26th, 2008. Claims 1-9 are now canceled. Claims 10-24 are now pending in the application.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Attorney Sameer Gokhale (Reg# 62,618) on 12/30/2008.

The application has been amended as follows:

IN THE CLAIM:

The following change to the claims 10-15 and 22-24 has been approved by the examiner and agreed upon by applicant:

Claims 10-15 and 22-24 are cancelled.

Allowable Subject Matter

3. Claims 16-21 are allowed. The following is an examiner's statement of reasons for allowance:

The prior art of record, considered individually or in combination, fails to fairly show or suggest the image signal cancel-type heterodyne reception method (claim 16), comprising, among other limitations, the novel and unobvious limitations as following:

"mixing a high-frequency signal received and amplified with locally oscillated two-phase output signals of a first local oscillator which have different phases, to generate two- phase intermediate-frequency signals; summing a pair of modulated signals of the two-phase intermediate-frequency signals which are modulated using two modulating orthogonal signals which are orthogonal to each other, to generate one synthesized signal; amplifying the synthesized signal to generate a synthesized-signal amplifier output signal; and modulating the synthesized-signal amplifier output signal by using signals obtained by modulating two-phase output signals of a second local oscillator which have different phases by using the modulating orthogonal signals, to generate a desired base-band signal from which an image signal has been canceled, thus demodulating the base-band signal." structurally and functionally interconnected with other limitations in a manner as recited in claims 17-21.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tri H. Phan, whose telephone number is (571) 272-3074. The examiner can normally be reached on M-F (8:00-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi H. Pham can be reached on (571) 272-3179.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office, whose telephone number is (571) 272-2600.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Tri H. Phan/
Primary Examiner, Art Unit 2416

January 2, 2009